





Is a New Substance Formed?

Chemical changes *always* produce one or more new substances. You will observe changes to a piece of chalk and determine which are chemical changes and which are not.

INQUIRY FOCUS Draw Conclusions

Procedure

-   Put on your safety goggles and apron. Open a piece of chalk about the size of a pea. Observe its properties.
- On a piece of clean paper, crush the piece of chalk with the back of a metal spoon. Observe the changes that occur.
- Place some of the crushed chalk into the bowl of the spoon. Use the dropper to add about 8 drops of vinegar to the crushed chalk. Observe what happens.

Materials

piece of chalk
sheet of paper
metal spoon
vinegar
dropper

Think It Over

- Describe what you observed about the appearance of the piece of chalk. Do you think a new substance was formed when the chalk was crushed? Explain.

- Describe what happened when the vinegar was added to the chalk. Do you think a new substance was formed when vinegar was added? Explain.

- What can you conclude about the changes you observed?

